

中国苔草属新种增补

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ADDENDA AD NOITATES CARICUM SINICARUM

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Key word *Carex*; *C. densifimbriata*; *C. zunyiensis*; *C. shangchengensis*; *C. calcicola*

关键词 苔草属; 密缘毛苔草; 遵义苔草; 商城苔草; 灰岩生苔草

1. 密缘毛苔草 新种 图 1

Carex densifimbriata. Tang et Wang, sp. nov. (Sect. Hemiscaposae C. B. Clarke). Species proxima *C. chienii* Wang et Tang, sed foliis marginibus et in nervis hispidis, utriculis ovatis 3—3.5 mm longis differt.

Herba perennis. Rhizoma breve, lignosum. Culmus crassus, 35—70 cm altus, obtuse triqueter, hispidus. Folia basalia, culmo breviora, elliptica vel elliptico-lanceolata, 2.8—4.5 cm lata, coriacea, marginibus et in nervis hispida, apice acuminata et mucronata, basi in petiolum longum decurrentia; petioli usque ad 20 cm longi, hispidi. Folia caulina ad vaginas marginibus hispida reducta. Inflorescentia depaniculata, 12—28 cm longa; paniculae secundariae binae, in ambitu deltoideae. Rhachis et ramulihispidi; bractae spathiformes, fuscae marginibus hispidae. Spiculae bisexuales, androgynae, ovatae vel oblongae, 4—8 mm longae, subhorizontaliter patentes. Squamae femineae ovatae, obtusae, fuscae, dorso viridi-trinerviae. Utriculi squamis longiores, ovati, 3—3.5 mm longi, oblique patentes, membranacei, glabri, nervis lateralibus duobus prominentibus, apice in rostrum 1 mm longum ore hyalino oblique sectum abrupte constricti. Nux arete inclusa, ovata, trigona. Stigmata persistentia 3.

Guangxi: Xing'an, Mao'er Shan, at the foot of mountain, Guangxi Exped. No. 434 (Holotypus, PE), June 1953.

Hunan: Qianyang, Anjiang Agricultural school No. 275; The Xuefeng Shan, Z. T. Li. Nos. 2041, 2097.

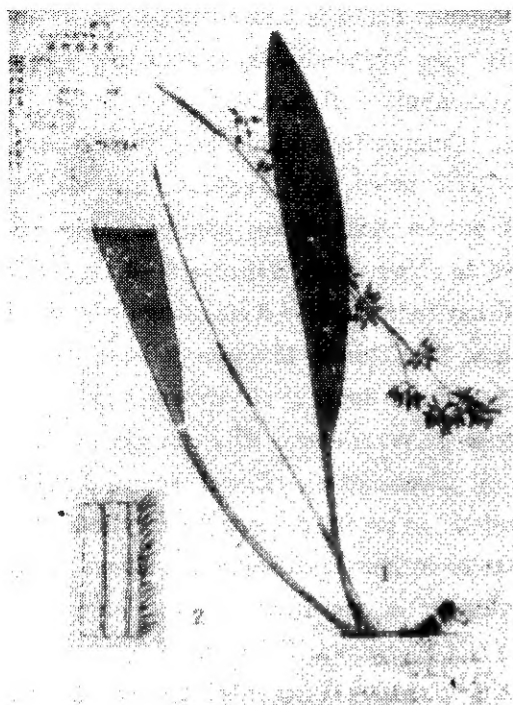


图1 密缘毛苔草 *Carex densifimbriata* Tang et Wang 1. 植株 habit; 2. 叶一部示缘毛 a part of leaf, showing ciliate margin

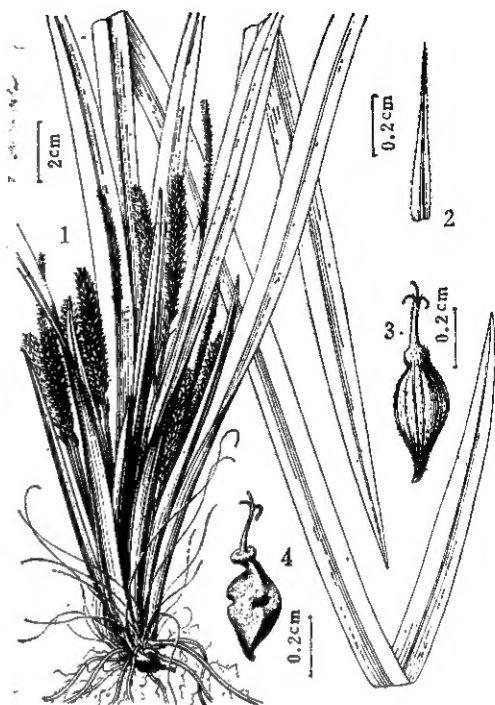


图2 遵义苔草 *C. zunyiensis* Tang et Wang 1. 植株 habit; 2. 雌花鳞片 pistillate scale; 3. 果囊 utricle; 4. 小坚果 nut.

Guizhou: Yinjiang, Qianbei Exped. Nos. 612, 763; Z. S. Zhang No. 401804; Jiangkou, Z. S. Zhang Nos. 400241, 400026, 400429, 400335, 402334.

多年生草本。根状茎短,木质。秆粗壮,高 35—70 cm,钝三棱形,被糙硬毛。叶基生,短于秆,椭圆形或椭圆状披针形,宽 2.8—4.5 cm,革质,边缘和脉上被糙硬毛,先端渐尖并具短尖头,基部渐狭成长柄;叶柄长达 20 cm,密被毛。秆上叶退化为鞘状,边缘具糙硬毛。圆锥花序复出,长 12—28 cm;侧生圆锥花序成对着生,三角形;花序轴和分枝被糙硬毛;苞片佛焰苞状,淡褐色,边缘被糙硬毛。小穗两性,雄雌顺序,卵形或矩圆形,长 4—8 mm,近水平开展;雌花鳞片卵形,顶端钝,褐色,背部具 3 条绿色的脉。果囊长于鳞片,卵形,长 3—3.5 mm,斜展,膜质,无毛,两侧脉显著隆起,先端骤然收缩成喙,喙长 1 mm,喙口膜质,斜切。小坚果紧包于果囊中,卵形,有三棱;宿存柱头 3 个。

本种与钱氏苔草 *C. chienii* Wang et Tang 相近,但叶脉上和边缘具毛。果囊卵形,长 3—3.5 mm 而异。

广西:兴安,猫儿山,生山脚,广西队 434, 1953 年 6 月(模式, PE)。

湖南:黔阳,安江农校 275;雪峰山区,李泽棠 2041, 2097。

贵州:印江,黔北队 612, 763;张志松 401804;江口,张志松 400241, 400026, 400429, 400335, 402334。

2. 遵义苔草 新种 图 2

Carex zunyiensis Tang et Wang, sp. nov. (Sect. Rhomboidales Kükenth.)

Species affinis *C. radiculiflorae* Dunn, sed squamis femineis lineari-lanceolatis ad apicem sensim attenuatis, iis masculinis lanceolatis, nuce ovato-elliptica trigona medio constricta, cujus rostro brevi curvato apice dilatato-annulato differt.

Herba perennis. Rhizoma breve, lignosum. Culmus fere nullus, basi vaginis atro-brunneis in fibras solutis obtectus. Folia 25—70 cm longa, 1—1.5 cm lata, atro-viridia, coriacea, marginibus superioribus scabriuscula, subtus secus nervos papillosa, apice acuminata vel longe acuminata. Inflorescentia valde abbreviata. Spiculae 3—4, approximatae, subradicales, terminalis masculina lineari-cylindrica 3.5—5 cm longa, laterales femineae 2—3 oblongo-cylindricae 3—5 cm longae densiflorae; bracteae foliaceae, evaginatae. Squamae femineae lineari-lanceolatae, 4—4.5 mm longae, ad apicem sensim angustae, marginibus scabrae, viridi-luteae, dorso costa prominenti. Utriculi squamis longiores, elliptici, 4—5 mm longi, oblique patentes, membranacei, olivacei, sparse hispidiusculi, multinervi, basin versus sensim attenuati, apice in rostrum subcylindricum manifeste bidentatum sensim attenuati. Nux arcte inclusa, ovato-elliptica, 3 mm longa, trigona, castanea, medio constricta, lateribus inferne concavis, apice rostrata; rostro brevi, curvato, apice dilatato-annulato. Styli basis vix incrassata. Stigmata 3.

Guizhou: Zunyi, in shady places near stream, alt. 1240 m., Qianbei Exped. No. 263 (Holotypus, PE), April. 13 1959; Kaili, Qiannan Exped. No. 131.

Hunan: An Jiang, Anonymous No. 51.

多年生草本。根状茎短,木质。秆近缺如,基部具暗棕色分裂成纤维状的旧叶鞘。叶长 25—70 cm,宽 1—1.5 cm,深绿色,革质,上部边缘稍粗糙,下面脉上有乳头状突起,先端渐尖或长渐尖。花序极缩短;小穗 3—4 个,彼此靠近,近基生;雄小穗 1 个,条状圆筒形,长 3.5—5 cm,雄花鳞片披针形;雌小穗 2—3 个,矩圆状圆筒形,长 3—5 cm,具密生花;苞片叶状,无鞘;雌花鳞片条状披针形,长 4—4.5 mm,向顶端渐狭,边缘粗糙,绿黄色,背部中脉隆起。果囊长于鳞片,椭圆形,长 4—5 mm,斜展,膜质,橄榄绿色,被稀疏的糙硬毛,具多脉,基部渐狭,上部渐狭成近圆筒状的喙,喙口具明显 2 齿。小坚果紧包于果囊中,卵状椭圆形,长约 3 mm,有三棱,栗色,中部缢缩,下部侧面凹陷;喙短,弯曲,顶端环状膨大;花柱基不膨大,柱头 3 个。

本种与根出花苔草 *C. radiculiflora* Dunn 相近,但雌花鳞片条状披针形,向顶端渐狭;雄花鳞片披针形;小坚果卵状椭圆形,中部缢缩,喙短而弯曲,顶端膨大,可以区别。

贵州:遵义,生水旁阴处,海拔 1240 m,黔北队 263 (模式, PE) 1959 年 4 月 13 日;凯里,黔南队 131。

湖南:安江,无名氏 51 号。

3. 商城苔草 新种 图 3

Carex shangchengensis S. Y. Liang, sp. nov. (Sect. Rhomboidales Kükenth.)

Species proxima *C. mancae* Boott, sed foliis, bracteis et vaginis scabris, arista squamarum feminearum longa, scabra differt.

Herba perennis. Rhizoma breve, lignosum. Culmus lateralis, 20—45 cm altus, com-

presso-triqueter, basi vaginis atro-brunneis in fibras solutis obteetus. Folia culmo breviora 4—7 mm lata, viridia, apice acuminata, supra saepe parte superiore et marginibus scabra, vaginis brunneis. Spiculae 2, terminalis masculina clavata 3 mm longa, lateralis androgyna oblongo-cylindrica 2.5 cm longa densiflora; bractee foliaceae scabrae basi vaginatae. Squamae femineae oblongae, 4.5—5 mm longae (aristis exclusis), fulvae, dorso viridi-trinerviae, costa scabra in aristam longam excurrens. Utriculi late ovati, 6.5 mm longi, oblique patentes, fusi, dense pubescentes, multinervi, apice in rostrum 2.5 mm longum manifeste bidentatum abrupte contracti. Nux arete inclusa, ovata, ca. 3 mm longa, trigona, medio constricta, lateribus inferne concavis, castanea, basi in stipitem brevem curvatum contracta, apice in rostrum curvatum cylindricum abrupte contracta. Styli basis vix incrassata. Stigmata 3.

Henan: Shangcheng, on mountain slopes, alt. 540 m., Anonymous 256 (Holotypus, PE), April, 23, 1959.

多年生草本。根状茎短, 木质。秆侧生, 高 20—45 cm, 扁三棱形, 基部被暗棕色分裂成纤维状的旧叶鞘。叶短于秆, 宽 4—7 mm, 绿色, 先端渐尖, 常在上部的表面和边缘粗糙, 叶鞘棕色。小穗 2 个, 顶端 1 个雄性, 棒状, 长 3 cm; 侧生的为两性小穗, 雄雌顺序, 矩

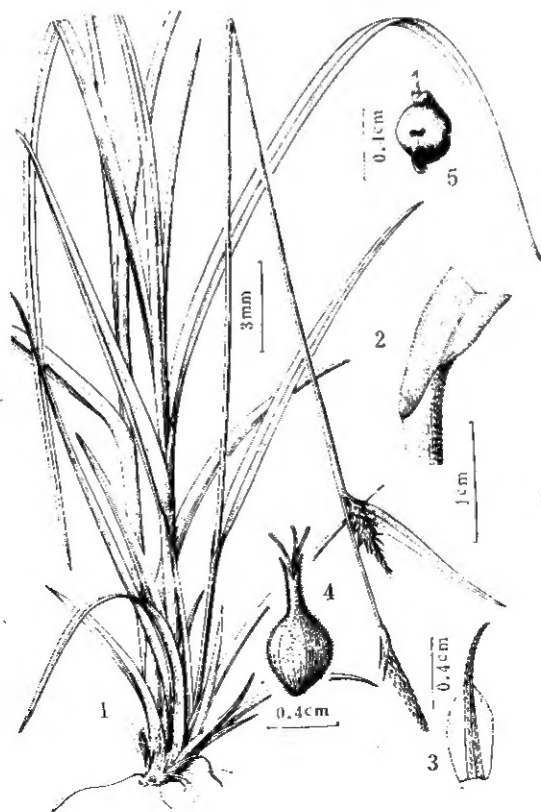


图3 商城苔草 *C. shangchengensis* S. Y. Liang 1. 植株 habit; 2. 苞片 bract; 3. 雌花鳞片 pistillate scale; 4. 果囊 utricle; 5. 小坚果 nut.

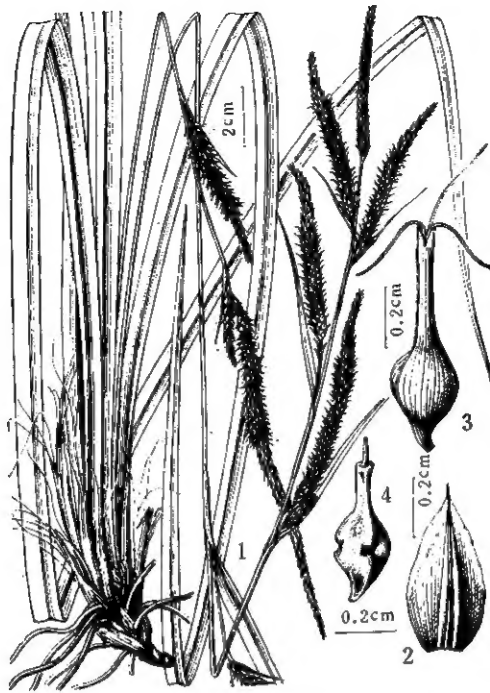


图4 灰岩生苔草 *C. calcicola* Tang et Wang 1.植株 habit; 2.雌花鳞片 pistillate scale; 3.果囊 utricle; 4.小坚果 nut.

圆状圆筒形,长 2.5 cm,具密生花;苞片叶状,粗糙,基部具鞘;雌花鳞片矩圆形,长 4.5—5 mm (不连芒),黄褐色,背部 3 条脉绿色,中脉粗糙并延伸成长芒。果囊宽卵形,长 6.5 mm,斜展,淡褐色,密被短毛,具多条明显的脉,先端急缩成长 2.5 mm 的喙,喙口具明显 2 齿。小坚果紧紧地包于果囊中,卵形,长约 3 mm,有三棱,中部棱边缢缩,下部侧面凹陷,栗色,基部具短柄,柄弯,顶端急缩成弯喙,花柱基不变粗。柱头 3 个。

本种与弯喙苔草 *C. manca* Boott 相近,不同在于本种叶,苞片和鞘均粗糙,雌花鳞片具长而粗糙的芒易于区别。

河南:商城,生山坡,海拔 540 m。无名氏 256 号(模式, PE) 1959 年 4 月 23 日。

4. 灰岩生苔草 新种 图 4

Carex calcicola Tang et Wang, sp. nov. (Sect. Rhomboidales Kükenth.)

Proxima *C. tenebrosae* Boott, sed spiculis 3—7, squamis femineis ovatis rubro-fuscis, acutis vel mucronatis, nuce medio constricta differt.

Herba perennis. Rhizoma obliquum, lignosum. Culmus 50—65 cm altus, rigidus, superne scabriusculus, basi vaginis atro-brunneis in fibras solutis obtectus. Folia culmum superantia, 8—11 mm lata, coriacea, marginibus valde revoluta, marginibus superioribus scabris, ad apice sensim attenuata. Spiculae 3—7, approximatae, terminalis masculina vel bisexualis, androgyna, cylindrica, 2—10 cm longa, stipitata, laterales 2—6 bisexuales (parte florum masculinorum superiorum longitudine $1/2$ — $1/3$ partem florum

femineorum inferorum saepe aequanti), interdum basi ramificantes, cylindricae, 3—11 cm longae, densiflorae, breviter stipitatae. Bractee vaginatae ima foliaceae. Squamae femineae ovatae, acutae vel mucronatae, rubro-fuscae, marginibus angustis albo-hyalinis, dorso viridi-trinerviae. Utriculi squamas superantes, oblique patentes, coriacei, ovato-lanceolati, 6—6.5 mm longi, glabri, multinervii, basi in stipitem brevem curvatum contracti, apice in rostrum longum marginibus scabrum manifeste bidentatum abrupte contracti. Nux arete inclusa, elliptica, trigona, fulva, medio constricta, lateribus superne et inferne concavis, 2 mm longa (rostro excluso), basi curvato-stipitata, apice in rostrum cylindricum 1—1.5 mm longum curvatum abrupte contracta. Styli basis vix incrassata. Stigmata 3.

Guizhou: Libo, on limestone soil, alt. 800 m., H. Y. Hou No. 2006 (Holotypus, PE), Feb. 24, 1932; Ping Tang, alt. 900 m., H. Y. Hou No. 1965, Feb. 12, 1943.

多年生草本。根状茎斜生,木质。秆高 50—65 cm,坚硬,上部稍粗糙,基部被深棕色分裂成纤维状的旧叶鞘。叶长于秆,宽 8—12 mm,革质,边缘反卷,上部边缘粗糙,先端渐狭。小穗 3—7 个,彼此靠近,顶生 1 个为雄性或两性,雄雌顺序,圆筒形,长 2—10 cm,具短柄,侧生的为雌性(顶端雄花部分常达小穗的 $1/2 - 1/3$),有时基部分枝,圆筒形,长 3—11 cm,具密花,具柄。苞片具鞘,最下面的 1 个叶状。雌花鳞片卵形,急尖或具短尖,红褐色,边缘具极窄的白色膜质,背面具 3 条绿色的脉;果囊长于鳞片,斜展,革质,卵状披针形,长 6—6.5 mm,无毛,具多条脉,基部急缩成弯的短柄,顶端突然收缩成长喙,喙边具细齿,喙口具明显 2 齿。小坚果紧包于果囊中,椭圆形,黄褐色,有三棱,中部棱上缢缩,上下棱面凹,长 2 mm (喙除外),基部具弯的短柄,顶端急缩成喙,长 1—1.5 mm,稍弯,花柱基几不膨大,柱头 3 个。

本种与 *C. tenebrosae* Boott 相近,但小穗 3—7 个,雌花鳞片卵形,红褐色,急尖或具短尖。小坚果中部棱上缢缩而异。

贵州:荔波,生石灰岩上,海拔 800 m,侯学煜 2006 (模式, PE) 1932 年 2 月 24 日;平塘,生山顶石灰岩上,海拔 900 m,侯学煜 1965 号,1943 年 2 月 12 日。